



Domestic Ductile Iron MJ Compact Fittings

ANSI/AWWA C153/A21.53

GENERAL SPECIFICATIONS

- MATERIAL:** Ductile Iron per ASTM A536
- PRESSURE:** 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes and 150 PSI rating for 54" - 64" sizes
- TESTING:** In accordance with ANSI/AWWA C153/A21.53, ANSI/AWWA C111/A21.11, UL and FM requirements
- LAYING LENGTH:** In accordance with ANSI/AWWA C153/A21.53 (fittings not listed in ANSI/AWWA have dimensions per Star design as noted in the catalog)
- DEFLECTION:** 2"-4"=8° | 6"=7° | 8"-12"=5° | 14"-16"=3 1/2° | 18"-24"=3° | 30"-64"=2°
- WEIGHTS:** Are in pounds, unless noted otherwise and do not include accessories, cement lining and coating
- FLANGES:** Flanged ends on fittings match ANSI/AWWA C115/A21.15 and ANSI B16.1 class 125 flanges
- CEMENT LINING:** In accordance with ANSI/AWWA C104/A21.4 -- size 2" - 3" single thickness and sizes 4" - 64" double thickness
- COATING:** Asphaltic seal coat inside and out in accordance with ANSI/AWWA C104/A21.4 and referenced in ANSI/AWWA C153/A21.53
- GASKETS:** SBR in accordance with ANSI/AWWA C111/A21.11
- T-BOLTS/NUTS:** Low alloy steel in accordance with ANSI/AWWA C111/A21.11
- APPROVALS:** 3" - 12" UL/ULC Listed | 2" and greater are UL/ANSI/NSF Standards 61 and 372 | 3" - 16" FM APPROVED. Please consult factory for detail listing and approvals.
- DIMENSIONS:** All dimensions are in inches unless noted otherwise.
- INSTALLATION:** Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905



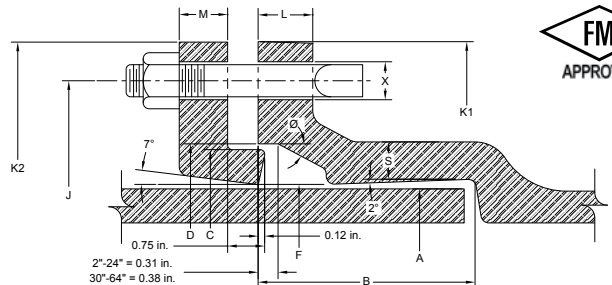
SUBMITTAL INFORMATION

PROJECT NAME: _____

ENGINEER: _____

CONTRACTOR: _____

SPEC. SECTION: _____



MECHANICAL JOINT DIMENSIONS

| NOM. SIZE | A DIA. | B | C DIA. | D DIA. | F DIA. | J DIA. | K1 DIA. | K2 DIA. | L | M | S | Ø | X DIA. | BOLTS | |
|-----------|--------|------|--------|--------|--------|--------|---------|---------|------|------|------|-----|--------|---------------|-----|
| | | | | | | | | | | | | | | SIZE | NO. |
| 2 | 2.50 | 2.50 | 3.39 | 3.50 | 2.61 | 4.75 | 6.19 | 6.25 | 0.58 | 0.62 | 0.36 | 28° | 3/4 | 5/8 x 3 | 2 |
| 3 | 3.96 | 2.50 | 4.84 | 4.94 | 4.06 | 6.19 | 7.62 | 7.69 | 0.58 | 0.62 | 0.39 | 28° | 3/4 | 5/8 x 3 | 4 |
| 4 | 4.80 | 2.50 | 5.92 | 6.02 | 4.90 | 7.50 | 9.06 | 9.12 | 0.60 | 0.75 | 0.39 | 28° | 7/8 | 3/4 x 3 1/2 | 4 |
| 6 | 6.90 | 2.50 | 8.02 | 8.12 | 7.00 | 9.50 | 11.06 | 11.12 | 0.63 | 0.88 | 0.43 | 28° | 7/8 | 3/4 x 3 1/2 | 6 |
| 8 | 9.05 | 2.50 | 10.17 | 10.27 | 9.15 | 11.75 | 13.31 | 13.37 | 0.66 | 1.00 | 0.45 | 28° | 7/8 | 3/4 x 3 1/2 | 6 |
| 10 | 11.10 | 2.50 | 12.22 | 12.34 | 11.20 | 14.00 | 15.62 | 15.62 | 0.70 | 1.00 | 0.47 | 28° | 7/8 | 3/4 x 3 1/2 | 8 |
| 12 | 13.20 | 2.50 | 14.32 | 14.44 | 13.30 | 16.25 | 17.88 | 17.88 | 0.73 | 1.00 | 0.49 | 28° | 7/8 | 3/4 x 3 1/2 | 8 |
| 14 | 15.30 | 3.50 | 16.40 | 16.54 | 15.44 | 18.75 | 20.25 | 20.25 | 0.79 | 1.25 | 0.55 | 28° | 7/8 | 3/4 x 4 | 10 |
| 16 | 17.40 | 3.50 | 18.50 | 18.64 | 17.54 | 21.00 | 22.50 | 22.50 | 0.85 | 1.31 | 0.58 | 28° | 7/8 | 3/4 x 4 | 12 |
| 18 | 19.50 | 3.50 | 20.60 | 20.74 | 19.64 | 23.25 | 24.83 | 24.75 | 1.00 | 1.38 | 0.68 | 28° | 7/8 | 3/4 x 4 | 12 |
| 20 | 21.60 | 3.50 | 22.70 | 22.84 | 21.74 | 25.50 | 27.08 | 27.00 | 1.02 | 1.44 | 0.69 | 28° | 7/8 | 3/4 x 4 | 14 |
| 24 | 25.80 | 3.50 | 26.90 | 27.04 | 25.94 | 30.00 | 31.58 | 31.50 | 1.02 | 1.56 | 0.75 | 28° | 7/8 | 3/4 x 4 1/2 | 16 |
| 30 | 32.00 | 4.00 | 33.29 | 33.46 | 32.17 | 36.88 | 39.12 | 39.12 | 1.31 | 2.00 | 0.82 | 20° | 1 1/8 | 1 x 5 1/2 | 20 |
| 36 | 38.30 | 4.00 | 39.59 | 39.76 | 38.47 | 43.75 | 46.00 | 46.00 | 1.45 | 2.00 | 1.00 | 20° | 1 1/8 | 1 x 5 1/2 | 24 |
| 42 | 44.50 | 4.00 | 45.79 | 45.96 | 44.67 | 50.62 | 53.12 | 53.12 | 1.45 | 2.00 | 1.25 | 20° | 1 3/8 | 1 1/4 x 6 | 28 |
| 48 | 50.80 | 4.00 | 52.09 | 52.26 | 50.97 | 57.50 | 60.00 | 60.00 | 1.45 | 2.00 | 1.35 | 20° | 1 3/8 | 1 1/4 x 6 | 32 |
| 54 | 57.56 | 4.00 | 58.82 | 59.02 | 57.73 | 63.20 | 65.70 | 65.70 | 1.88 | 2.00 | 1.50 | 20° | 1 3/8 | 1 1/4 x 6 1/2 | 36 |
| 60 | 61.61 | 4.00 | 62.87 | 63.07 | 61.78 | 67.72 | 70.22 | 70.22 | 1.88 | 2.00 | 1.55 | 20° | 1 3/8 | 1 1/4 x 6 1/2 | 36 |
| 64 | 65.67 | 4.00 | 66.96 | 67.13 | 65.84 | 71.86 | 74.36 | 74.36 | 1.88 | 2.00 | 1.62 | 20° | 1 3/8 | 1 1/4 x 6 1/2 | 38 |

SIZE RANGE (Please specify):

Size Range _____

LINING OPTIONS (Please check one):

- Standard: Cement-lined and asphalt seal coat per ANSI/AWWA C104/A21.4 and UL/NSF-61
- Optional: FBE (Fusion Bonded Epoxy) per ANSI/AWWA C116/A21.16 and UL/NSF-61 - ID & OD Only
- Optional: P401 (Protecto 401) Ceramic Epoxy - sewer applications only. Not NSF-61
- Optional: Other (specify) _____

COATING OPTIONS (Please check one):

- Standard: Asphaltic seal coat per ANSI/AWWA C104/A21.4
- Optional: FBE (Fusion Bonded Epoxy) per ANSI/AWWA C116/A21.16 and UL/NSF-61 - ID & OD Only
- Optional: Other (specify) _____

